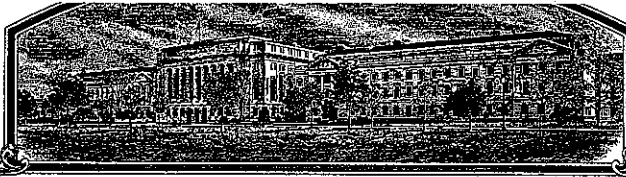


No.

200200076



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pure Seed Testing, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW, NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 U.S.C. 2131-2144, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BENTGRASS, COLONIAL

'Glory'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty-fourth day of November, in the year two thousand and four.

Attest:



Al M. G. [Signature]

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

[Signature]

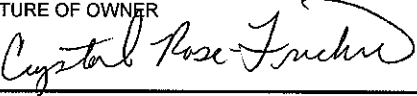
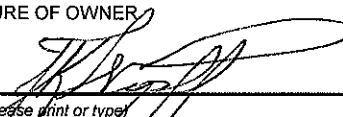
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER Pure Seed Testing, Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME PST-9HG, SYN-0HG		3. VARIETY NAME GLORY	
4. ADDRESS (Street and No., or RFD No., City, State, and ZIP Code, and Country) P.O. Box 449 Hubbard, OR 97032		5. TELEPHONE (include area code) (503) 651-2130		FOR OFFICIAL USE ONLY PVPO NUMBER 2002 00076	
		6. FAX (include area code) (503) 263-0703		FILING DATE January 23, 2002	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Oregon		9. DATE OF INCORPORATION 1975	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Crystal Rose-Fricker Pure Seed Testing, Inc. P.O. Box 449 Hubbard, OR 97032				FILING AND EXAMINATION FEES: \$ 2705 DATE 1/23/2002 CERTIFICATION FEE: \$ 432.00 DATE 10/12/04	
11. TELEPHONE (Include area code) (503) 651-2130		12. FAX (Include area code) (503) 263-0703		13. E-MAIL crystal@turf-seed.com	
				14. CROP KIND (Common Name) Colonial Bentgrass	
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)			19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act <input type="checkbox"/> YES (If "yes," answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no," go to item 22)		
			20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? IF YES, WHICH CLASSES? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED		
			21. DOES THE OWNER SPECIFY THAT THE CLASSES BE LIMITED AS TO NUMBER OF GENERATIONS? IF YES, SPECIFY THE NUMBER 1, 2, 3, etc. <input checked="" type="checkbox"/> 6 <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> 6 <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)		
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U.S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)			23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)		
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 			SIGNATURE OF OWNER 		
NAME (Please print or type) Crystal Rose-Fricker			NAME (Please print or type) Joseph K. Wipff, Ph.D.		
CAPACITY OR TITLE President		DATE 12/10/01		CAPACITY OR TITLE Taxonomist/Plant Breeder	
				DATE 12/10/01	

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be received in the PVPO: (1) completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the Certificate.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvp.htm>

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
(2) the details of subsequent stages of selection and multiplication;
(3) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
(1) identify these varieties and state all differences objectively;
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences;
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
21. **CONTINUED FROM FRONT** (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. **CONTINUED FROM FRONT** (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
The date of first sale was a foundation lot on 9/27/01 in the USA.

23. **CONTINUED FROM FRONT** (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the applicant/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (2-99) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (6-98) which is obsolete.

Origin and Breeding History of Glory (9HG) Colonial Bentgrass

The fall of 1993 RBD clones were selected from a mowed clone nursery at Rutgers University and brought to Oregon. The sources of these clones are listed as follows:

RBD-2 was selected from an old mowed turf area at Horticulture Farm II, North Brunswick, NJ. It was collected in the spring of 1990.

RBD-17 was selected during the early spring of 1990 from an old cow pasture in Burlington County, NJ. The Bishop Farm had been in the Bishop family for many decades.

RBD-8 was selected from an old low-maintenance cemetery in the town of Adelphia, Monmouth County, NJ in the spring of 1990.

RBD-11, RBD-12, and RBD-13 were selected from lawns of Cook College, Rutgers University, New Brunswick, NJ during the spring of 1990.

RBD-5 was selected from the Woodlawn Campus Lawn of the Eagleton Institute of Rutgers University, New Brunswick, NJ during the spring of 1990. It is adjacent to the Cook College Campus.

RBD-20 and RBD-23 were selected from lawns on Horticulture Farm 1, which is adjacent to the Rutgers Turfgrass Research Farm in North Brunswick, NJ. They were collected during the spring of 1990.

RBD-26 was selected from an old cemetery in Centerville, MD during the spring of 1990. It was over five meters in diameter. All other clones were between 2 and 5 meters in diameter. The origin of these clones is unknown. However, the history of these turfs and the appearance of the clones suggest that they had persisted and spread over a period of many decades.

During the summer of 1994, 24 plants were selected and moved together and labeled OHF. Seed was started from these plants fall of 1994 in an isolated crossing block and seedlings were planted in a spaced plant nursery.

During the summer of 1995, 55 plants were selected for good color, seed head number and overall disease resistance and moved prior to pollination into an isolated crossing block and called 9HG. Two thousand one hundred and twelve seedlings were placed in a spaced plant nursery fall of 1995 from the 9HG nursery. This nursery was rogued to uniformity with the best 582 plants for floret fertility and harvested as breeder seed in 1996.

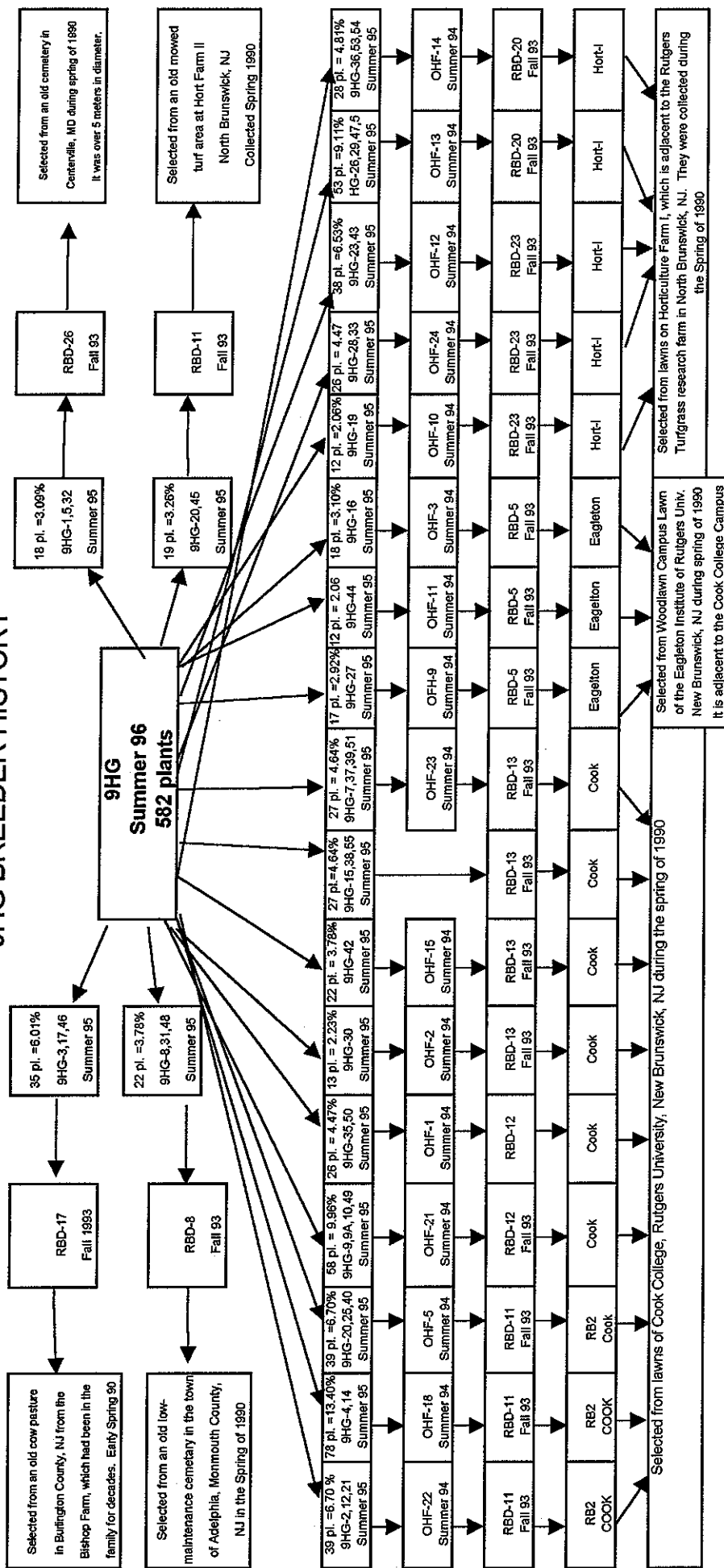
Seed production of Glory (9HG) is limited to three generations of increase from breeder seed, one each of foundation, registered and certified. Glory is a stable and uniform variety. Breeder seed is maintained by Pure Seed Testing, Inc. No off-types or variants have been observed in the reproduction or multiplication from breeder seed to foundation seed. Glory Colonial bentgrass and the parents of Glory have produced turf and seed fields of equal quality, acceptable uniformity and good stability.

200200078

ADDENDUM TO EXHIBIT A

Glory was developed as an advanced generation synthetic variety. We moved the plants into a polycross and used progeny testing to evaluate the parents.

9HG BREEDER HISTORY



200200076

Novelty Statement for Glory (9HG) Colonial Bentgrass

Glory is most similar to Tiger, however, close comparison shows the following differences.

1. Glory has an unstraightened plant height that is at least 5.7 cm shorter than Tiger (Tables 1 and 2).
2. Glory has a panicle length at least 2.1 cm shorter than Tiger (Tables 1 and 2).
3. Glory has a flag leaf length at least 0.8 cm shorter than Tiger (Tables 1 and 2).

Table 1. 2000 mean morphological measurements for entries in a colonial bentgrass seed yield trial seeded fall of 1997 near Hubbard, OR.

<u>Entry</u>	<u>Unstraightened Plant Height (cm)</u>	<u>Panicle Length (cm)</u>	<u>Flag Leaf Length (cm)</u>
Tiger	44.4	28.4	7.9
Glory	38.7	26.3	7.1
LSD (0.05)	2.8	1.5	0.7

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Table 2. 1999 mean morphological measurements for entries in a colonial bentgrass seed yield trial seeded fall of 1997 near Hubbard, OR.

<u>Entry</u>	<u>Unstraightened Plant Height (cm)</u>	<u>Panicle Length (cm)</u>	<u>Flag Leaf Length (cm)</u>
Tiger	52.0	35.2	8.9
Glory	38.2	28.4	8.0
LSD (0.05)	2.5	1.8	0.8

Table 3. Mean turf quality ratings for entries in a colonial bentgrass fairway turf trial seeded fall of 1998 near Hubbard, OR. (9 = ideal)

<u>Entry</u>	<u>1999</u>	<u>2000</u>	<u>Mean</u>
PST-9456	6.0	5.8	5.9
Alister (Syn 9F7)	5.8	5.7	5.7
Syn 9BNC	5.6	5.6	5.6
SRX7MOBB	5.4	5.2	5.3
Syn 9HGL	5.4	5.1	5.2
Glory	5.4	5.0	5.2
SRX7 MOD	5.1	5.2	5.2
SR 7100	5.0	5.2	5.1
Syn 98Y	5.2	4.9	5.1
Tiger	5.1	4.9	5.0
Syn 9DH	4.9	5.0	4.9
Syn 9PM	4.9	4.9	4.9
SB-1	4.3	5.2	4.8
Syn 9ER	4.6	4.7	4.7
Bardot	4.2	5.0	4.6
Highland	3.8	4.6	4.2
LSD (0.05)	0.6	0.6	0.5

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY PROGRAM
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

EXHIBIT C
(BENTGRASS)

OBJECTIVE DESCRIPTION OF VARIETY
BENTGRASS
(*Agrostis* spp.)

NAME OF APPLICANT(S) Pure Seed Testing, Inc.	TEMPORARY DESIGNATION PST-9HG, SYN-0HG	VARIETY NAME Glory
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) P.O. Box 449 Hubbard, OR 97032		FOR OFFICIAL USE ONLY PVPO NUMBER 200200076

Place the appropriate number that describes the varietal characteristics of this variety in the boxes below. Use leading zeroes when necessary (e.g. 089). Descriptions of characters should represent those that are typical for the variety. Ranges may be given also. Measured data should be for SPACED PLANTS. Give additional description for all characteristics that cannot be adequately described in the form below. Append all pertinent comparative trial and evaluation data. The symbol "▲" indicates decimal.

COMPARISON VARIETIES FOR USE BELOW

- | | | | |
|---------------|---------------|--------------|-----------------------------|
| 1 = Astoria | 2 = Exeter | 3 = Highland | 4 = Seaside |
| 5 = Penncross | 6 = Kingstown | 7 = Astra | 8 = Other (Please Specify): |

1. SPECIES

- | | |
|---|--|
| <input type="text" value="1"/> 1 = Colonial (browntop) <i>A. tenuis</i> | 2 = Creeping <i>A. stolonifera</i> (<i>A. palustris</i>) |
| 3 = Velvet <i>A. canina</i> ssp. <i>canina</i> | 4 = Brown Bent <i>A. canina</i> ssp. <i>montana</i> |
| 5 = Red Top <i>A. gigantea</i> | |

2. ADAPTATION (0 = Not Tested, 1 = Not Adapted, 2 = Adapted)

- | | | | |
|--|--|--|--|
| <input type="text" value="2"/> Northeast | <input type="text" value="1"/> Southeast | <input type="text" value="2"/> North Central | <input type="text" value="2"/> Pacific N. W. |
| <input type="text"/> Other (Please Specify): | | | |

3. MATURITY (At first anthesis): Use comparison varieties

- | | |
|---|---|
| <input type="text" value=""/> <input type="text" value=""/> Days earlier than | <input type="text" value=""/> COMPARISON VARIETY |
| Maturity the same as | <input type="text" value=""/> COMPARISON VARIETY |
| <input type="text" value="1"/> <input type="text" value="7"/> Days later than | <input type="text" value="3"/> COMPARISON VARIETY |

4. HEIGHT (Average of longest 10 shoots from soil surface to top of head)

- | | | |
|--|---|---|
| <input type="text" value="3"/> <input type="text" value="8"/> <input type="text" value="2"/> cm Height (at maturity) | <input type="text" value="3"/> <input type="text" value="0"/> cm Shorter than | <input type="text" value="3"/> COMPARISON VARIETY |
| | Height the same as | <input type="text" value=""/> COMPARISON VARIETY |
| | <input type="text" value=""/> <input type="text" value=""/> cm Taller than | <input type="text" value=""/> COMPARISON VARIETY |

5. GROWTH HABIT

☐☐☐ % Prostrate ☐☐☐ 1 0 0 % Decumbent ☐☐☐ % Geniculate ☐☐☐ % Erect

200 200 076

6. VEGETATIVE REPRODUCTION

Rhizomes: ☐☐☐ 2 1 = Absent 2 = Present

Stolons: ☐☐☐ 1 1 = Absent 2 = Present

☐☐☐ 1 0 0 % Rhizomes ☐☐☐ 0 0 0 % Stolons

7. LEAF BLADE

Color: ☐☐☐ 4 1 = Yellowish Green (Cohansey) 2 = Light Green (Washington)
3 = Green (Exeter) 4 = Dark Green (Kingstown, Tracenta)
5 = Bluish Green (Highland) 6 = Other (Please Specify): _____

Texture: (fineness) ☐☐☐ 4 1 = Very Fine (Kingstown) 2 = Fine (Exeter)
3 = Medium Fine (Astoria) 4 = Medium (Seaside)
5 = Medium Coarse (Virginia) 6 = Coarse (Vermont)

☐☐☐☐ Stomatal density of upper leaf surface Not Taken

Lower Surface: ☐☐☐ % Smooth ☐☐☐ % Rough

Upper Surface: ☐☐☐ % Smooth ☐☐☐ % Rough

Margins: ☐☐☐ % Smooth ☐☐☐ % Rough

☐☐☐ 3 1 mm Width (Average of 10) ☐☐ mm Narrower than ☐ COMPARISON VARIETY

Width same as ☐ COMPARISON VARIETY

☐☐☐ 0 9 mm Wider than ☒ 3 COMPARISON VARIETY

☐☐☐ 4 3 mm Width (Flag Leaves) ☐☐☐ 0 8 cm Length (Flag Leaves)

RAP
9/21/04

8. LEAF SHEATH

Anthocyanin: ☐☐☐ 2 1 = Absent 5 0 % Red Sheaths
2 = Present

9. LIGULE (lower and middle leaves)

Shape at Apex: ☐☐☐ % Acute ☐☐☐ 4 0 % Rounded ☐☐☐ 6 0 % Truncate

☐☐☐ % Other (Please Specify): _____

Pubescence: ☐☐☐ % Glabrous ☐☐☐ 1 0 0 % Pubescent

Margins: ☐☐☐ 1 0 0 % Entire ☐☐☐ % Toothed

☐☐☐ % Other (Please Specify): _____

☐☐☐ 1 2 mm Length

10. LEMMA

Shape: ☐☐☐ % Lanceolate ☐☐☐ % Ovate
☐☐☐ % Obovate ☐☐☐ 1 0 0 % Elliptic

10. LEMMA (Continued)

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% Oblong % Other (Please Specify):

mm Width mm Length (Exclusive of awn)

Color: % Buff % Silvery

% Other (Please Specify): Tan

Surface: % Glossy % Dull

Texture: % Smooth % Punctate

Pubescence: % Glabrous % Sparse

% Copious

Basal Hairs: % Absent % Few

% Many % Short

% Long % Appressed

% Ascending % Spreading

Awns: % Absent % Few 04

% Many % Awn-pointed

% Short % Long

% Straight % Geniculate

Awn Insertion on Lemma: % Basal % Middle

% Distal

11. PANICLE

Type (in anthesis): % Open % Compact

Anthocyanin: % Absent % Present

Branches in Anthesis: % Appressed % Ascending

% Spreading

Branches in Fruit: % Appressed % Ascending

% Spreading

Branch Surface: % Smooth % Scabrous

12. SEED

Grams per 1000 seed

13. SPRING GREEN UP

1 = Early (Exeter) 2 = Medium (Astoria) 3 = Late (Kingstown)

14. ENVIRONMENTAL RESISTANCE (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

2 Cold 1 Heat 1 Drought 1 Shade 1 Other (Please Specify): Salt 200200076

15. DISEASE RESISTANCE (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

2 Red Leaf Spot (<i>Drechslera erythrospila</i>)	2 Helminthosporium Leaf Spot (<i>Bipolaris sorokiniana</i>)
0 Melting Out (<i>Drechslera poae</i> (<i>Helminthosporium vagans</i>))	2 Dollar Spot (<i>Sclerotinia homoeocarpa</i>)
1 Pythium Blight (<i>P. aphanidermatum</i>)	1 Pythium Blight (<i>P. ultimum</i>)
2 Fusarium Blight (<i>F. roseum</i>)	0 Fusarium Blight (<i>F. tricinctum</i>)
2 Fusarium Patch (Pink Snow Mold) (<i>F. nivale</i>)	2 Powdery Mildew (<i>Erysiphe graminis</i>)
1 Ophiobolus Patch (<i>O. graminis</i>)	0 Stripe Smut (<i>Ustilago striiformis</i>)
2 Copper Spot (<i>Gloeocercospora sorghi</i>)	0 Typhula Blight (Snow Scald) (<i>T. incarnata</i>)
1 Red Thread (<i>Corticium fuciforme</i>)	2 Brown Patch (<i>Rhizoctonia solani</i>)
2 Stem Rust (<i>Puccinia graminis</i>)	2 Crown Rust (<i>P. coronata</i>)
2 Leaf Rust (<i>P. poae-nemoralis</i>)	Other (Please Specify):

16. INSECT RESISTANCE (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

0 European Chafer (<i>Amphimallon solstitialis</i>)	0 Garden Chafer (<i>Phyllopertha horticola</i>)
0 Chinch Bug (<i>Blissus insularis</i>)	0 Webworm (<i>Crambus</i> spp.)
0 Armyworm (Cutworm) (<i>Pseudaletia unipuncta</i>)	Other (Please Specify):

17. GIVE VARIETY(S) THAT MOST CLOSELY RESEMBLE THE SUBMITTED VARIETY: For the following characteristics indicate the degree of resemblance (D.R.) with one of the following numbers: 1 = submitted variety is less than, lighter, or inferior to similar variety, 2 = Same as, 3 = More than, darker or superior, etc.

Character	Similar Variety	D.R.	Character	Similar Variety	D.R.
Growth Habit	Highland	3	Leaf Color	Highland	3
Awn Length	Highland	2	Panicle Type	Highland	1
Seed Weight	Seaside	1	Turf Fineness	Highland	3
Cold Resistance	Highland	3	Heat Resistance	Highland	3
Drought Resistance	Highland	3	Shade Resistance	Highland	3
Brown Patch	Highland	3			

18. COMMENTS

Additional Description of Glory (9HG) Colonial Bentgrass

Glory has improved turf quality (Tables 3-6).

Glory has excellent winter color (Table 4).

Glory has good spring green-up (Table 4).

Glory has good resistance to dollar spot (Table 4 and 8).

Glory does not exhibit purple color (Table 4). in winter, mowed RAO 9/21/04

Glory has good leaf spot resistance (Table 7).

Glory has moderate tolerance to brown patch (Table 8).

Table 4. Performance of colonial and velvet bentgrass cultivars and selections in a fairway/tee turf trial seeded September 1995 at North Brunswick, NJ.

Cultivar or Selection	Species	Turf quality ¹ 1996	Seedling vigor ² Sept. 26 1995	Color ³ Nov. 22 1995	Winter color ³ Feb. 26 1996	Gray snow mold patches ⁴ Feb. 26 1996	Spring green-up ⁵ March 14 1996	Anthrax-nose ⁶ Aug. 3 1996	Dollar spot ⁷ Aug. 3 1996	Purple color ⁸ Nov. 21 1996
1 SR 7200	velvet	6.2	7.3	5.3	3.7	0.7	2.0	7.7	6.0	7.3
2 7VB Germ	velvet	5.8	3.7	5.3	3.0	1.3	1.7	6.7	6.0	3.7
3 Amherst GC-2	colonial	5.8	6.7	5.3	4.7	2.3	5.0	5.0	8.7	6.0
4 Amherst GC-3	colonial	5.2	4.0	5.0	4.3	1.3	4.7	5.3	8.0	6.0
5 Syn OHG (9HG-)	colonial	5.0	5.7	4.7	6.3	4.0	5.7	4.3	6.7	8.7
6 MD Nat Cem-6	colonial	5.0	6.0	5.7	5.3	5.3	5.3	3.7	7.3	9.0
7 7 Belt	colonial	4.9	8.0	6.3	4.0	1.0	5.0	4.0	5.7	6.0
8 SK Bent-4	colonial	4.8	3.3	5.0	3.7	4.0	3.3	4.0	8.3	8.3
9 Prouts Neck GC-6	colonial	4.8	6.3	5.0	3.0	0.7	2.7	4.7	6.3	7.0
10 3005	colonial	4.7	8.0	7.0	3.3	1.7	2.3	2.7	8.0	3.0
11 SK Bent-1	colonial	4.7	6.0	6.0	5.0	13.0	5.3	4.0	7.3	7.3
12 Converse Coll	colonial	4.7	7.0	5.0	5.0	0.7	5.0	3.3	8.0	7.3
13 Keene GC-1	colonial	4.6	6.3	5.0	3.7	3.3	4.3	3.7	7.7	5.0
14 Prouts Neck GC-5	colonial	4.6	6.3	5.3	3.7	0.3	3.3	3.7	6.0	5.7
15 3006	colonial	4.6	7.3	5.7	3.0	3.7	2.3	4.0	6.7	5.7

(continued)

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Table 4 (continued).

Cultivar or Selection	Species	Turf quality ¹ 1996	Seedling vigor ² Sept. 26 1995	Color ³ Nov. 22 1995	Winter color ³ Feb. 26 1996	Gray snow mold patches ⁴ Feb. 26 1996	Spring green-up ⁵ March 14 1996	Anthrax-nose ⁶ Aug. 3 1996	Dollar spot ⁷ Aug. 3 1996	Purple color ⁸ Nov. 21 1996
16 Syn 0456	colonial	4.5	5.3	4.7	6.3	0.0	6.0	4.0	8.0	9.0
17 Amherst GC-1B	colonial	4.5	5.0	5.0	4.0	1.3	4.0	3.7	7.3	6.7
18 3003	colonial	4.5	8.0	5.3	4.3	3.0	3.7	3.7	8.7	6.7
19 3001	colonial	4.4	8.0	4.0	6.0	1.0	5.5	3.0	8.0	9.0
LSD at 5% = 0.7										
1 9 = best turf quality										
2 9 = best seedling vigor										
3 9 = brightest green color										
4 Number of gray snow mold patches per plot										
5 9 = brightest green color										
6 9 = least anthracnose disease										
7 9 = least dollar spot disease										
8 9 = least purple color										

Table 5. Mean turf quality ratings for entries in a colonial bentgrass turf trial seeded fall of 1996 near Hubbard, OR. (9 = ideal)

<u>Entry</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>Mean</u>
SR 7100	5.3	6.1	6.5	6.0
Glory	6.1	5.4	6.4	6.0
PST-9FL	6.0	5.3	6.1	5.8
PST-9456	5.5	5.8	6.0	5.8
PST-9TR	5.6	5.3	5.8	5.5
PST-9LH	5.7	5.2	5.5	5.5
SRX 7 Dryland	4.4	4.4	5.2	4.7
PST-9ET	3.6	4.3	5.4	4.4
SB-1	3.8	3.4	4.3	3.9
LSD (0.05)	0.8	0.9	1.0	0.7

Table 6. Mean turf quality ratings for a colonial bentgrass turf trial seeded fall of 1995 near Hubbard, OR. (9=best)

<u>Entry</u>	<u>1996</u>	<u>1997</u>	<u>Mean</u>
Syn 9456	5.8	5.8	5.8
MD NAT C	5.3	5.9	5.6
Syn 9HG	5.4	5.6	5.5
Converse	5.2	5.6	5.4
AMH-3	5.2	5.3	5.3
SR 7BELT	5.6	4.8	5.2
Prout-6	5.0	5.1	5.1
AMH-1B	5.1	4.9	5.0
3001	5.2	4.8	5.0
SR 7100	5.0	4.8	4.9
Prout-5	5.2	4.6	4.9
3003	5.1	4.7	4.9
Tracenta	5.4	4.2	4.8
SB-1	3.9	5.1	4.5
3010	4.5	4.1	4.3
3005	4.6	4.0	4.3
3006	4.3	3.6	3.9
Highland	3.7	4.2	3.9
LSD (0.05)	0.7	1.0	0.7

Table 7.

1996 mean leaf spot ratings for a colonial bentgrass turf trial seeded fall of 1995 near Hubbard, OR. (9 = no disease)

<u>Entry</u>	<u>Mean</u>
3001	9.0
PN6	8.3
Amherst GC-3	8.3
SYN O456	8.3
SYN OHG	8.0
3003	8.0
Converse College	7.7
SB-1	7.0
Highland	7.0
MD NAT CEM-6	7.0
3006	6.7
PN5	6.3
SR 7BELT	6.0
Amherst GC-1B	6.0
Tracenta	6.0
3010	5.3
SR 7100	5.0
3005	4.7

LSD (0.05)	1.7
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Table 8. 1999 mean brown patch, dollar spot, and turf quality ratings (through 10 July) for entries in a bentgrass turf trial seeded fall of 1998 near Rolesville, NC and maintained at 0.5". (9 = no disease; ideal quality)

<u>Entry</u>	<u>Brown Patch</u>	<u>Dollar Spot</u>	<u>Turf Quality</u>
CB 2-94	6.5	4.2	6.1
PST-9456	3.3	8.0	5.9
PST-ODA	7.5	5.2	5.9
Imperial	7.8	3.2	5.6
SRX 7 MODD	3.2	6.8	5.6
Glory	5.0	6.2	5.6
PST-A2E	7.5	6.0	5.4
Cato	5.2	4.7	5.4
SRX 1HB	6.8	5.7	5.4
Century	6.5	3.5	5.4
Penn G-6	7.5	5.2	5.3
SRX 7 MOBB	4.2	4.7	5.3
Syn 9BNC	4.2	6.0	5.3
L-93	7.7	5.2	5.2
SRX 1C4	6.5	4.3	5.1
LRF-2193	6.3	4.8	5.0
Syn 9F7	6.3	6.0	4.9
PST-OVN	5.2	6.7	4.9
Crenshaw	5.7	3.7	4.8
CB 3-94	5.8	4.0	4.8
SRX 1BPAA	8.0	3.5	4.8
Syn 98Y	5.2	6.8	4.8
SR 1119	7.0	5.5	4.7
Southshore	6.7	4.5	4.6
SR 7100	2.3	7.0	4.6
Providence	4.5	4.0	4.6
PennLinks	6.8	5.5	4.6
PST-9PM	5.7	6.0	4.5
Mariner	5.0	3.5	4.5
SRX 1NJH	8.2	5.0	4.3
Penneagle	5.3	5.0	4.3
Penncross	6.3	4.7	4.3
Syn 9DH	6.8	5.7	4.3
Seaside II	5.3	7.0	3.9
SR 1120	5.8	4.5	3.9
LSD (0.05)	1.7	1.7	1.1

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

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EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) Pure Seed Testing, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER PST-9HG, SYN-0HG	3. VARIETY NAME Glory
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) P.O. Box 449 Hubbard, OR 97032	5. TELEPHONE (include area code) (503) 651-2130	6. FAX (include area code) (503) 263-0703
7. PVPO NUMBER 200200076		

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. ☒ YES ☐ NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company?
If no, give name of country ☒ YES ☐ NO

10. Is the applicant the original breeder? If no, please answer the following: ☒ YES ☐ NO

a. If original rights to variety were owned by individual(s):
Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country

b. If original rights to variety were owned by a company:
Is the original breeder(s) U.S. based company? If no, give name of country ☒ YES ☐ NO

11. Additional explanation on ownership (If needed, use reverse for extra space):

Pure Seed Testing, Inc. has licensed Glory to Turf-Seed, Inc.

PLEASE NOTE:

Plant variety protection can be afforded only to owners (now licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

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